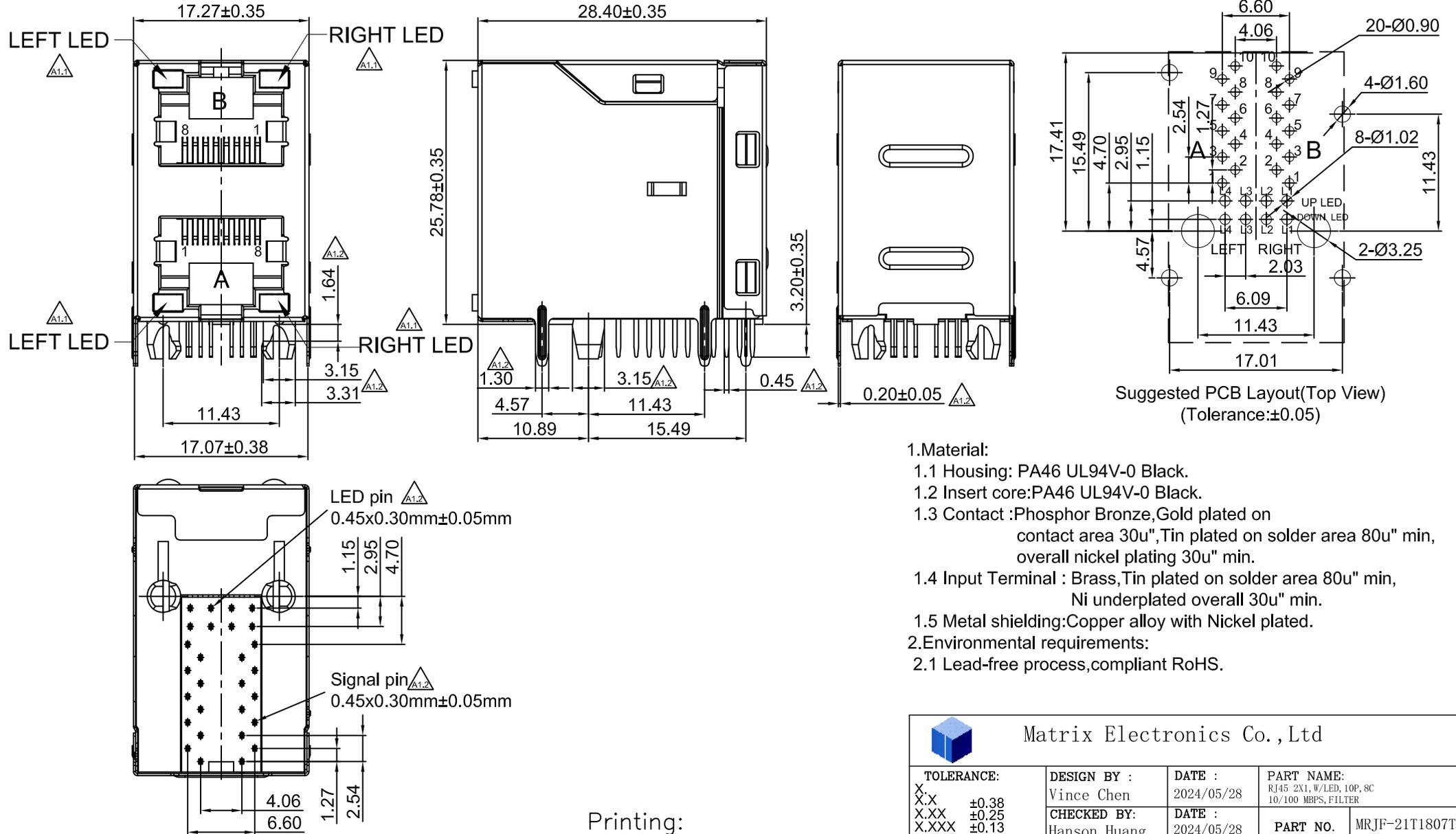


GP Component

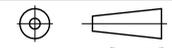
1. MECHANICAL DIMENSIONS:



- Material:
 - Housing: PA46 UL94V-0 Black.
 - Insert core: PA46 UL94V-0 Black.
 - Contact: Phosphor Bronze, Gold plated on contact area 30u", Tin plated on solder area 80u" min, overall nickel plating 30u" min.
 - Input Terminal: Brass, Tin plated on solder area 80u" min, Ni underplated overall 30u" min.
 - Metal shielding: Copper alloy with Nickel plated.
- Environmental requirements:
 - Lead-free process, compliant RoHS.



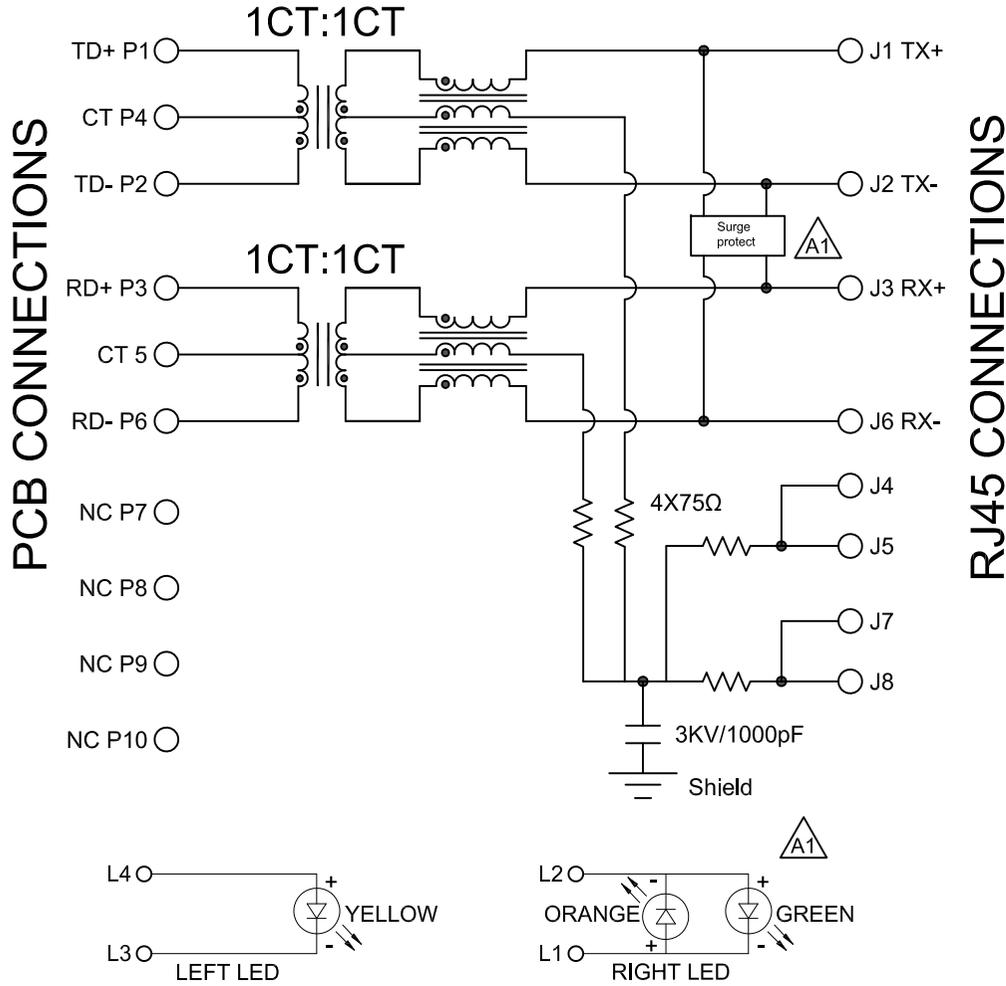
Matrix Electronics Co., Ltd

TOLERANCE: X X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE: ±3°	DESIGN BY : Vince Chen	DATE : 2024/05/28	PART NAME: RJ45 2X1, W/LED, 10P, 8C 10/100 MBPS, FILTER	
 UNIT: mm [inch] SCALE: 1:1 SIZE: A4	CHECKED BY: Hanson Huang	DATE : 2024/05/28	PART NO.	MRJF-21T1807TRS
	APPROVED BY1: Richard Hsieh	DATE : 2024/05/28	MOLD NO.	NA
	APPROVED BY2: Richard Hsieh	DATE : 2024/05/28	DRAW NO.	
			SHEET NO.	1 OF 3

Printing:
MATRIX
MRJF-21T1807TRS
YYWW

GP Component

3. SCHEMATIC:



REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A1			Modify Schematic & Led Color	2024/03/29	Vince
A1.1			Add LED Mark	2024/04/01	Vince
A1.2			Add Size	2024/04/11	Vince
A1.3			Delete View	2024/05/28	Vince

3. Electrical Specification @25°C:

- 3.1 Inductance: 350uH Min With 8mA DC bias.
- 3.2 Hi-Pot Test: Input to Output 2250VDC/1mA.
- 3.3 Insertion loss : 1-100MHZ -1dB max.
- 3.4 Return loss : 1-30MHZ -18dB min.

- 30-60MHZ -16dB min.
- 60-80MHZ -12dB min.
- 80-100MHZ -10dB min.



3.5 Common Mode Rejection:

- 1-30MHZ -40dB min.
- 30-60MHZ -35dB min.
- 60-100MHZ -30dB min.

3.6 Cross Talk:1-30MHZ -40dB min.

- 30-60MHZ -35dB min.
- 60-100MHZ -30dB min.

4. Operating and Storage Temperature:

- 4.1 Operating Temperature : -40°C to +85°C.
- 4.2 Storage Temperature : -40°C to +85°C.

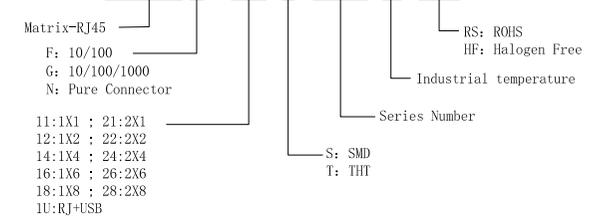
5. Wave soldering peak temperature:260°C.

6. Surge protection:IEC61000-4-5(Lightning)

- (10/700us)Line to Line:3KV.
- IEC61000-4-2 (ESD) 15kV (air), 8kV (contact)

MATRIX PART NO:

MRJF-21T1807TRS



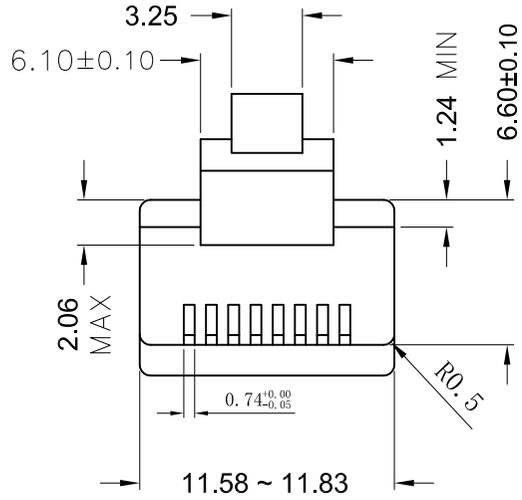
Emitting Color	λ_p (nm)	$V_f@I_f=20mA$
GREEN	565	1.8-2.5V
YELLOW	585	1.8-2.5V
ORANGE	610	1.8-2.5V

Matrix Electronics Co., Ltd

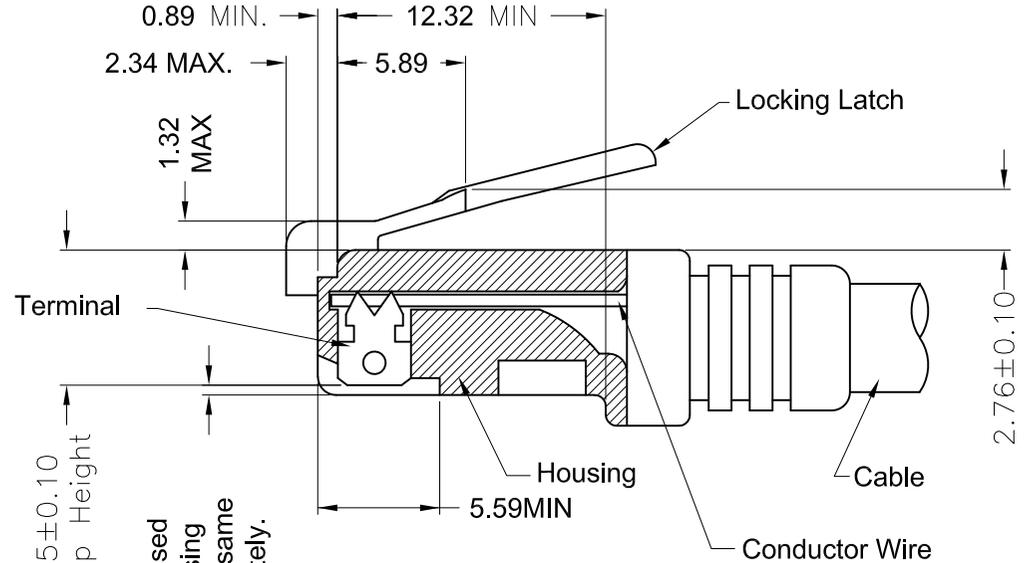
TOLERANCE: X X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE: ±3°	DESIGN BY : Vince Chen	DATE : 2024/05/28	PART NAME: RJ45 2X1,W/LED, 10P, 8C 10/100 MBPS, FILTER
 UNIT: mm [inch] SCALE:1:1 SIZE:A4	CHECKED BY: Hanson Huang	DATE : 2024/05/28	PART NO. MRJF-21T1807TRS
	APPROVED BY1: Richard Hsieh	DATE : 2024/05/28	MOLD NO. NA
	APPROVED BY2: Richard Hsieh	DATE : 2024/05/28	DRAW NO. SHEET NO. 2 OF 3

GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A1			Modify Schematic & Led Color	2024/03/29	Vince
A1.1			Add LED Mark	2024/04/01	Vince
A1.2			Add Size	2024/04/11	Vince
A1.3			Delete View	2024/05/28	Vince



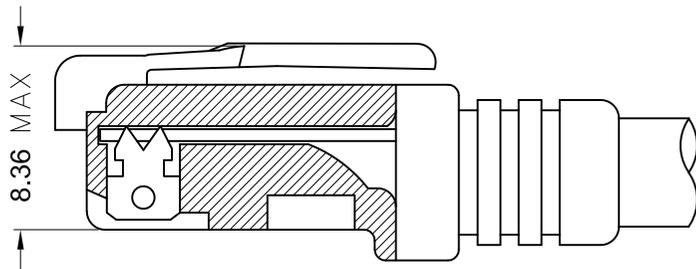
* There must be no damage to housing or locking latch. There must be no nicks or cuts in cable.
 * Durability : 750 cycles generally



All contacts recessed below top of housing and must be at the same height approximately.

FOLLOW SPECIFICATION : FCC, PART 68, SUBPART F FIGURE 68.500 (C)(2)(i) AND IEC 603-7 FIGURE 23 & 24

STANDARD MODULAR PLUG ASSEMBLY



FOLLOW SPECIFICATION : FCC, PART 68, SUBPART F FIGURE 68.500 (C)(2)(ii)

 Matrix Electronics Co., Ltd			
TOLERANCE: X: X X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE: ±3°	DESIGN BY : Vince Chen	DATE : 2024/05/28	PART NAME: RJ45 2X1, W/LED, 10P, 8C 10/100 MBPS, FILTER
 UNIT: mm [inch] SCALE: 1:1 SIZE: A4	CHECKED BY: Hanson Huang	DATE : 2024/05/28	PART NO. MRJF-21T1807TRS
	APPROVED BY1: Richard Hsieh	DATE : 2024/05/28	MOLD NO. NA
	APPROVED BY2: Richard Hsieh	DATE : 2024/05/28	DRAW NO. SHEET NO. 3 OF 3